PATENT COOPERATION TREATY PCT

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INTERNATIONAL SEARCH REPORT

	(PCT Article 18 and Rules 43 and 4	4) FINAL CHECK
Applicant's or agent's file reference	FOR FURTHER ACTION as	see Form PCT/ISA/220 swell as, where applicable, item 5 below.
101367 - 1 International application No.	International filing date (day/month/year	(Earliest) Priority Date (day/month/year)
PCT/GB2004/005400	24/12/2004	05/01/2004
Applicant	24/12/2004	03/01/2004
ASTRAZENECA AB This International Search Report has been	prepared by this International Searching	Authority and is transmitted to the applicant
according to Article 18. A copy is being tra This International Search Report consists It is also accompanied by		this report.
	nternational search was carried out on the ess otherwise indicated under this item.	basis of the international application in the
The international sthis Authority (Rul		anslation of the international application furnished to
b. With regard to any nucleo	tide and/or amino acid sequence disclo	sed in the international application, see Box No. I.
2. Certain claims were four	id unsearchable (See Box II).	
3. X Unity of Invention is lack	ing (see Box III).	
4. With regard to the title,		
the text is approved as sub		
THIOPHENE DERIVATIVES	ed by this Authority to read as follows:	
5. With regard to the abstract,	mitted by the gooting-	
X the text is approved as sub the text has been establish may, within one month from	ed, according to Rule 38.2(b), by this Auth	ority as it appears in Box No. IV. The applicant earch report, submit comments to this Authority.
6. With regard to the drawings,		
a. the figure of the drawings to be pu	blished with the abstract is Figure No	Farthurs
as suggested by th	• •	
	Authority, because the applicant failed to	
	Authority, because this figure better chara	cterizes the invention.
b none of the figures is to be	published with the abstract.	

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/005400 A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07D409/12 C07D453/02 C07D409/14 C070333/38 C07D413/12 C07D413/14 CO7D417/14 A61K31/41 A61K31/40 A61K31/435 A61K31/495 A61K31/55 A61P35/00 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) C07D A61K Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, CHEM ABS Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with Indication, where appropriate, of the relevant passages Relevant to claim No. 1-36 X WO 03/028731 A (SMITHKLINE BEECHAM CORPORATION; PARRISH, CYNTHIA, A; CALLAHAN, JAMES,) 10 April 2003 (2003-04-10) cited in the application Examples X WO 03/029241 A (SMITHKLINE BEECHAM 1-36 CORPORATION; PARRISH, CYNTHIA, A; CALLAHAN, JAMES.)
10 April 2003 (2003-04-10)
cited in the application Examples | US 6 187 799 B1 (WOOD JILL E ET AL) 13 February 2001 (2001-02-13) Α 1 - 36the whole document -/--Further documents are listed in the continuation of box C. | X | Patent family members are listed in annex. " Special categories of cited documents : "T" later document published after the international filling date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-ments, such combination being obvious to a person skilled in the art. "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 2 4 08 **2005** 10 June 2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentiaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 661 epo nl, Fax: (+31-70) 340-3016

Fritz, M

Form PCT/ISA/210 (second sheet) (January 2004)

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•	INTERNATIONAL SEARCH REPORT	International Application No				
PCT/GB2004/005400						
C.(Continue	etion) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.				
Category	Orange of Coccanies in William Coccanies in William State of Coccanies in Coccanies					
X	ROBBA M ET AL: "Synthèse d'intermédiaires de la thiazolo '4,5-d! pyridazine. II. Amides et hydrazides d'acides thiazole-carboxyliques" BULLETIN DE LA SOCIETE CHIMIQUE DE FRANCE, SOCIETE FRANCAISE DE CHIMIE. PARIS, FR, no. 6, 1969, pages 2152-2157, XP002234183 ISSN: 0037-8968 right col, 2nd, 3rd cpd. page 2155	1-3,24				
X	CHILDRESS ET AL.: "Thiazolopyrimidines" J. AM. CHEM. SOC., vol. 73, no. 26, 1951, pages 3862-3864, XP002330773 right col. 2-Methylthiazole-4,5-dicarboxamide and 2-Phenylthiazole-4,5-dicarboxamide page 3863	1-3,24				
x	CHAUVIN ET AL.: "Synthesis of heterocyclic compounds from cyano- and dicyanoselephenes" COMPTES RENDUS DES SEANCES DE DES SCIENCES, SERIE C: SCIENCES CHIMIQUES, vol. 274, no. 14, 1972, pages 1347-1349, XP009048300 First reaction equation, second compound page 1348	1-3,24				
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INTERNATIONAL SEARCH REPORT

International application No. PCT/GB2004/005400

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows: see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet (2)) (January 2004)

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-7(part);8;9-10(part);11;12-31(part);32-36

Compounds (I) in which Y is CH, methods, compositions, and uses thereof, processes for their poduction, intermediates (XV), (XVI), (XI) and use of these intermediates

2. claims: 1-7(part);9-10(part);12-31(part)

Compounds (I) in which Y is nitrogen, methods, compositions and uses thereof

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No PCT/GB2004/005400

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 03028731	Α	10-04-2003	WO	03028731	A1	10-04-2003
WO 03029241	Α	10-04-2003	WO	03029241	A1	10-04-2003
US 6187799	B1	13-02-2001	US WO	2001006975 9852559		05-07-2001 26-11-1998

Form PCT/(SA/210 (patent family annex) (January 2004)